

## DR. SEVERIN TELLS ABOUT FRUIT FLY INVESTIGATIONS

In the lecture delivered yesterday afternoon by Dr. Severin of the College of Hawaii, in the McKinley High school auditorium, it was plain to be seen that although the doctor may have compiled gracefully with the order to discontinue his investigations of the habits of the Mediterranean fruit fly, he did not agree with the government and those who instigated its action. The lecture was attended by a fair-sized audience made up of some students of the College of Hawaii and a number of citizens.

**Catching the Flies.**  
Dr. Severin, on first taking the stand, stated that the most fitting title was "Investigations of the Mediterranean Fruit Fly Conducted at the College of Hawaii," and then proceeded with a delineation of how these experiments were carried on.

The method of catching the fly, he explained, was by wiring pans, the bottoms of which were just covered with kerosene, to the tree just under the branches. At first, in order to ascertain whether color had any attraction for the insects, the pans used were of various hues, but when it was found that about an equal number was caught in a pan of any color, and that it was the sense of smell that lured the insect rather than that of sight, the pans used in further experiments were white, so as to show more plainly the insects that were caught. In communities where there was an excessive rainfall, the pans used were much deeper in order that the accumulated water should not overflow, and thus spill the kerosene which would naturally rise to the top of the water.

The doctor then showed photographs of the traps in their positions. From this he went on to tell of how the fruit fly acted when approaching the oil. "They sit lightly on the edges of the pan, sit quietly for a while, and then fly about until they touched the kerosene, a few moments after which they would be dead."

Passing on to the habits of the fly, it was told of how fifty per cent. of the orange crops were infected by the pest, and, to give a comparison of the attraction of different varieties of fruit, the doctor turned to a table which had been compiled from experiments in this subject, and showed that the proportion was: Guava two, citrus five, and plum thirteen, the fly apparently having a particular fondness for the juice of the last-named fruit. And it was also explained that there was a time, lasting perhaps fifteen days after the hatching of the insect, when it was not as strong as after that time. During this period it was found to be much more easily caught by the kerosene.

**Beneficial Parasites Rare.**  
The next subject discussed was that of parasites and predaceous insects, or insects that devour other insects, in which it was shown that that sort of a remedy would be of little value, as the proportion of beneficial parasites was very small. As to whether or not the Mediterranean fruit fly breeds in the Chinese banana as it grows on the plantations, the doctor was unable to tell, as his attempts to set oil traps in the banana trees between here and Waikiki were not allowed to be carried out.

**Spraying is Effective.**  
In regard to the benefit of spraying, Dr. Severin again brought forth charts which showed the vast difference in the number of flies caught before and after the process. By the use of sixteen pans throughout a period of thirty-five days before spraying, there were caught thirty-six females and 10,203 male flies, while with the same number of traps throughout the same space of time after spraying there were caught only eight females and 174 male flies. But though the number of fruit flies was much diminished by spraying, it seemed, if anything to increase the number of predaceous insects, for where before they caught but fifty-two, after the spraying there were sixty-two found in the traps.

It will be noticed that there is a great difference in the numbers of male and female caught, which fact the doctor explained, upon being questioned after the lecture, as not being due to the comparative numbers of the two sexes hatched, but rather to the oil's lack of attraction for the female sex. This they have tried to eliminate by using many varieties of cheap oils but to no purpose. These tests, however, Dr. Severin maintains are not to be relied upon, as there is a necessity of much work before any degree of accuracy may be attained.

**Danger to California.**  
Next the danger to California from the pest was brought out, which the doctor believes real because, though it might be improbable that the fruit fly would be carried by means of bananas shipped green, the Chinamen were not at all careful, and would often ship ripe or bruised fruit, in which it is not only possible but probable that the animal would breed. "All fruit being shipped from here to San Francisco," asserted Dr. Severin, "should undergo the inspection of an expert entomologist, who should never relax the vigil. 'However,' the lecturer added, 'because fruit fly eggs, extracted by vivisection and placed in the banana, should hatch affords no reason to believe that this would be the case under natural circumstances.'

**Papaya Susceptible.**  
In going over the fruit in which the fruit fly breeds, the doctor brought out the fact that papaya is one of the most fertile, and that the insect is not at all particular in selecting those that are bruised, but will accept with equal energy one that is perfect though ripe; and also that grape fruit, which is not mentioned in the exportation regulations, is one of their favorite breeding places. As to the pineapple, there were vague hints leading to what might be the case, but no positive statement was made.

**Thorough Inspection Demanded.**  
Finally, Dr. Severin went again into the question of inspection, citing the system of San Francisco as an example that should be carried out here, for the local inspectors, he claimed, are failures on account of their negligence in performing their duties. The luggage of the first cabin passengers on the inter-island steamers is seldom if ever looked into, while that of the steerage passengers receives a hurried rummaging. "Why not," he concluded, "protect the still fortunately exempt islands from the ravages of the pest?"

That he had been unable through lack of efficient assistance, to conduct experiments upon the wild fruits of the higher altitudes, Dr. Severin regretted. That he was withheld from pursuing his tests on the banana he seemed to resent.

**NOTICE OF SALE OF PUBLIC LANDS**  
At 12 o'clock noon, Saturday, February 10, 1912, at the front door to the Capitol Building, Honolulu, there will be sold at public auction, under Part IV, Section 17, Land Act 1895, Section 276, Revised Laws of Hawaii, the following described land:

(1) That certain strip of land in Block 16, College Hills Tract, containing an area of 2000 square feet. Upset price \$116.00.

(2) That certain piece of land situate at Waimea, Hawaii, containing an area of 12,625 square feet. Upset price \$25.00.

This lot is sold under the express condition that the said lot is to be used for charitable purposes only.

Cost of patent and stamp to be paid by purchaser.

For maps and further information apply at the office of the Commissioner of Public Lands, Capitol Building, Honolulu.

CHARLES S. JUDD,  
Commissioner of Public Lands.  
Honolulu, December 8, 1911.

## EXCHANGE NOT VERY LIVELY

Though prices remain firm, there was comparatively little trading done at the session of the stock and bond exchange this morning, for the reason, as explained by one broker, that there are very few buying orders in.

Between boards some little trading was done, chiefly in Hawaiian Commercial, which was advanced a quarter of a point to 42.50. Oahu was offered at 35 again this morning, but there were no buyers.

The sales of Hawaiian Commercial aggregated 615 shares, of which all but 195 shares sold at 42.50. A total of 100 shares of Brewery sold at 23.50. Two sales of blocks of 25 shares each of Honokaa were recorded at 12.25. Sales of Ewa totaled 100 shares, the price being 33. Thirty shares of Olua sold at 6 and 27 shares of McBryde at 7. One sale of a block of 5 shares of Waiialua at 128.50 was reported. Ten shares of Hilo Common went at 8.50.

There was one bond sale, that of \$3000 Hilo 1901 6s at 100.25.

### OH HOW I ITCHED.

What long nerve-racking days of constant torture—what sleepless nights of terrible agony—itch—itch—itch. Constant itch, until it seemed that I must tear off my very skin—then—

Instant relief—my skin cooled, soothed and healed! The very first drops of D. D. D. stopped that awful itch instantly, yes, the very moment D. D. D. touched my skin the torture ceased.

D. D. D. has been known for years as the only absolutely reliable Eczema cure. Just a mild, soothing, pleasant wash made of Oil of Wintergreen, Thymol and other ingredients, but the instant relief D. D. D. gives to all kinds of skin troubles seems like a miracle, and when used with D. D. D. Soap keeps the skin in perfect condition.

If you have any kind of skin trouble—Eczema, Psoriasis, Salt Rheum, no matter what it is—yes, even pimples, investigate the wonderful D. D. D. Prescription. We know what D. D. D. has done—we vouch for it. D. D. D. never fails to do exactly as is claimed.

Call at our store and get a bottle. It will relieve all skin trouble at once. Benson, Smith & Co., agents for Honolulu.

The main dining room of the Young Hotel on the sixth floor will be reopened on Monday under the competent direction of a French chef.

### ORDER OF NOTICE OF HEARING PETITION FOR ADMINISTRATION.

IN THE CIRCUIT COURT OF THE FIRST CIRCUIT, TERRITORY OF HAWAII—AT CHAMBERS—IN PROBATE.

In the Matter of the Estate of George Friedenberg, Deceased.

ON READING AND FILING the Petition of George Friedenberg of Honolulu, City and County of Honolulu, Territory of Hawaii, alleging that George Friedenberg of said Honolulu died intestate at said Honolulu on the 2nd day of September, A. D. 1911, leaving property within the jurisdiction of this Court necessary to be administered upon, and praying that Letters of Administration issue to P. F. Hurley, of said Honolulu.

IT IS ORDERED, that Wednesday, the fourteenth day of February, A. D. 1912, at 9 o'clock A. M. be and hereby is appointed for hearing said Petition in the Court Room of this Court in the City and County of Honolulu, at which time and place all persons concerned may appear and show cause, if any they have, why said Petition should not be granted.

By the Court:  
JOHN MARCALLANO,  
Clerk First Circuit Court.  
Dated, Honolulu, January 10, 1912.

## International Reception

The officers of the Chinese United Society and the Chinese Revolutionary Union, with their ladies, and Mr. and Mrs. Francis W. Damon, extend a most cordial invitation to ladies and gentlemen of all nationalities to be present at a reception given in honor of Mr. Sun Fo, son of President Sun Yat Sen of the Republic of China, on Monday evening, the fifteenth of January, from eight to ten o'clock, at the Chinese United Society Hall, on King street, near Nuuanu.

## MANY SAMPLES OF MILK TAKEN

Food Commissioner Blanchard, in his reports to the Board of Health yesterday, laid stress on the matter of pure milk. He also alluded to the late friction that existed between his department and the other health authorities. However, as the misunderstanding has been cleared away, the matter has been dropped.

As to the gathering of samples of milk, Mr. Blanchard said that Inspector Myhre had met with much difficulty in getting them. However, when the food commissioner went himself, the difficulty was obviated.

During November, twenty-six samples of milk were taken. Of these, twenty-two were above standard and four below. Seven samples of pot were tested and five were above and two below standard. Among the drugs tested were iodine, ammonia water and tincture of iron. The commissioner reports that all the drugs, imported from reputable houses on the mainland, are very satisfactory.

Several samples of "Near beer" were tested, and they were found to contain less than 2 per cent of alcohol.

In December Mr. Blanchard obtained fifty-four samples of milk. These showed that fifty were above standard and four below. The food commissioner remarks that the milk of the city is much better than it was, and he gives as a reason that the herds have been improved. The feeding of the cows is also better.

Ice cream is to get another testing, as, for some time past, the stuff has been getting low in butter content again.

## FILED FOR RECORD

Documents entered for record January 11, 1912, from 10:30 a. m. to 4:30 p. m.:

Arthur W. Neely to Mariana J. Moreira and husband, Rel.  
Henry St. J. Nahaleleua and wife, by atty. et al. to H. A. Heen, D.

Eugene A. Le Clair to Ira Eakew et al., M.  
Lukalika Brooks and husband to Elizabeth K. Brooks, C. M.

M. E. Silva to von Hamm-Young Co., Ltd., C. M.

Mary Burbank et al., by Tr., to Fred Harrison, D.

Fred Harrison and wife to First Am. Savs. and Tr. Co. of H., Ltd., M.

B'd of Hawn. Evan. Assn. to Antonio Piliars, D.

H. Hackfeld & Co., Ltd., to Anna Nainoa and husband, Rel.

Bob Kellimookolohe and wife to Ching Sun Young (w.), D.

Recorded Dec. 30, 1911.

William H. Johnson to Leland S. Connors, P. A.; special powers. B 356, p. 487. Dated Dec. 20, 1911.

Helen C. Boyd and hsb (J. H.) to Western & Hawaiian Invmt Co. Ltd., M.; grs 3619, 51 and R P 7986, Manoa, Honolulu, Oahu; \$3000. B 359, p. 24. Dated Dec. 29, 1911.

Henry St. J. Nahaleleua and wife by atty et al. to Lum Ching, D; int in lots 15 and 16 of subdiv of ap 1, R P 1985, kul 6245, Kamaole, Honolulu, Oahu; \$425. B 362, p. 1. Dated Dec. 29, 1911.

Oahu College by trs to Emeline Waldeyer, Rel; lot 4, blk 6, College Hills, Honolulu, Oahu; \$450. B 359, p. 27. Dated Dec. 28, 1911.

Kamohai (K) to Dick K. Diamond, D; int in R P 310, kul 800, Awaiahi-mu, Honolulu Oahu; int in real and personal property of Kaahani (w), etc, Ter of Hawaii; \$1, etc. B 362, p. 9. Dated Nov. 24, 1911.

John Kaiminaano to J. W. Kaimoa (K) et al, D; int in grs 233, 574 and R P 1477, Mokuleia, etc, Waiialua, Oahu; int in gr 1313 and R Ps 2143 and 797, Haleahua, etc, Koolaula, Oahu; int in R P 2070 and gr 177, Moanaloa, etc, Honolulu, Oahu; int in grs 2213, 3176, 1501 and R P 3654, Waihoehua, etc, Koolaula, etc, Maui; int in lands, Ter of Hawaii; \$100, etc. B 362, p. 9. Dated Nov. 24, 1911.

Cecil Brown Tr. to Alexander Tripp, D; int in lots 1 and 2, blk 16, Kapio-lani tract, Honolulu, Oahu; \$270. B 362, p. 11. Dated Dec. 14, 1911.

Douglas H. Lockwood to Panny H. Lockwood, D; int in est of R. E. Lockwood decd., etc; \$1, etc; B 362, p. 13. Dated Nov. 22, 1911.

Caroline A. Medeiros and hsb (L. R.) to Alime G. Bicknell, D; lot 3, blk A, Baseball tract, Honolulu, Oahu; \$600; B 362, p. 13. Dated Dec. 29, 1911.

Oahu College by Trs. to Arthur Berg, D; lot 21, blk 12, College Hills, Honolulu, Oahu; \$1440; B 362, p. 15. Dated Dec. 29, 1911.

Watanabe Sabel to Araki Meiji, C. M.; 2 leaseholds and cane crops, Ponahawai Homesteads, etc., Hilo, Hawaii; \$318.93; B 359, p. 21. Dated Aug. 7, 1911.

K. Tarao to A. Sinjo, C. M.; leasehold, livestock, vehicles and harnesses, Kapana, Kohala, Hawaii; \$900; B 359, p. 23. Dated Dec. 29, 1911.

H. Kinoshita to S. Hata, B. S.; cane crops on 2 pcs land, Kukuau 2, Hilo, Hawaii; \$300; B 356, p. 488. Dated Dec. 29, 1911.

A. Ku (K) to A. K. Kahi et al., D;

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## FLORAL PARADE PROMISES WELL

It was given out this morning by Arthur F. Wall, director of the floral parade committee, in an interview with a Star reporter, that the plans for the parade were progressing nicely and that as large a contingent of the seamen as could be spared from the fleet in the harbor would take part in the procession, providing that the fleet is not ordered away before February 22. Mr. Wall called upon Rear Admiral Cowles to go over the plans, and also addressed a letter to Admiral Thomas regarding the same subject.

Mr. Wall is particularly enthusiastic over the development of his plans to have the float representing an ancient Hawaiian king and queen. "This feature," he says, "will be the most perfect and complete reproduction of a native royal procession that has ever been exhibited."

The board of directors of Kilohana Art League held an important meeting yesterday afternoon. A request was received from Director Wall of the floral parade that the league decorate an automobile for the parade on February 22. A long discussion took place, and it was resolved to accede to the request, and to circulate post-cards among the members asking for suggestions on the matter of decoration.

2 1/2 A of Kul 8525, Haneco, Hana, Maui; \$2, etc; B 352, p. 457. Dated Dec. 8, 1911.

J. K. Kapunial to Akaka, L; pc land and bldgs, Kaupukuole, Waimea, Kauai; 10 yrs at \$14 per mo; B 353, p. 438. Dated Jan. 5, 1910.

Wong Aloiau and wife to Tr. of Rose Aloiau, D; half R P 7526, Kul 3638, Ap. 2, bldgs, etc., Kapaa, Puna, Kauai; \$1, etc; B 362, p. 3. Dated Jan. 25, 1909.

Geo. H. Fairchild and wife to Rose Aloiau, D; half R P 7526, Kul 3638, Ap. 2, bldgs, etc., Kapaa, Puna, Kauai; \$1; B 362, p. 5. Dated Jan. 27, 1911.

Rose A. Kong and hsb (Er) to Wong Aloiau, D; L Ps 5269, 5323, and pc land, rents, etc., Kapaa, Kawaihau, etc., Kauai; \$1, etc; B 362, p. 6. Dated Nov. 16, 1911.

## NOTED PEDESTRIAN

H. P. Wood of the Hawaii Promotion Committee has received a post card from Joe F. Mikulec, mailed at Tokio, stating that he had received the literature sent to him.

This man is walking around the world. He is a native of Croatia, Austria, but is now a citizen of the United States. He has been en route since October, 1901, and has a record of 68,000 miles. He is on his way to New York, and will write a book. This information is obtained from the post card that he sent. A picture of himself is on the card.

Mr. Wood looks forward to seeing Mr. Mikulec soon, as he has been hearing this way a long time now. Nothing was said on the card about when he would be here.

## LATE SHIPPING

Noeau from Kauai.

The Noeau arrived this morning from Kauai with one roller, twenty-nine empty wine barrels, 134 bags of rice, 597 bags of rice paddy, 2700 bags of sugar, and sixteen packages of sundries.

Purser Kaipo of the Noeau stated that there were about a thousand bags of sugar at Kilauea. He mentioned that Waimea mill was not grinding.

According to a message to the Merchants' Exchange this morning the Hyades sailed from Hilo for San Francisco last night at five o'clock. If you want a satisfactory carbon paper, one that gives clear, sharp copy, and does not smear, ask for Kee Lox Carbon Paper. A. B. Arleigh & Co., sole agents for Hawaiian Islands. There was a well attended and very satisfactory meeting of Waialeale, Kaimuki and Palolo Improvement Club, last night, President Hugh O. Davis in the chair. Good reports of progress were made regarding improvement of the private electric lighting service and the institution of free mail delivery. The matter of putting a float in the floral parade by private subscription was left to the board of directors with power to act.

## MUSCULAR RHEUMATISM.

It is worse than useless to take any medicines internally for muscular or chronic rheumatism. All that is needed is a free application of Chamberlain's Pain Balm. For sale by all dealers. Benson, Smith & Co. agents for Hawaii.

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## GOVERNMENT CASE AS TO BANANAS

This morning Deputy Attorney General E. W. Sutton filed a brief in the Lucas banana case.

The matter is treated from a different angle this time. Sutton takes the matter up from the layman's point of view. He states that the legislature realized that the mosquitoes bred in water, and on this assumption they empowered the board of health to make the necessary regulations for the prevention of breeding places.

He contends that the phrase "water in which mosquito larvae breed," will be the matter that the supreme court will have to decide. A narrow construction of this phrase would lead to absurd results, says Sutton. The section does not mean water in which mosquitoes are actually breeding but water in which mosquitoes might breed if preventive measures were not taken.

He says that obviously the banana tree or plant is capable of holding water in the cup formation. Once this fact is admitted, then the banana plant is as much a container as a tin can, or a clogged gutter, claims Sutton. It would be out of the question to screen banana trees, therefore they must be removed if mosquito breeding places are to be abolished. It would not be possible to cover with kerosene the water contained in the banana plants. The only alternative to destroying the tree is to have it sprayed with some preparation that will kill the larvae, but so far no substance has yet been found that will do this without injuring the tree.

Mr. Sutton defends the reasonableness of the regulation. He says that it is an everyday precaution. Ships are constantly coming from ports in Central and South America and, so long as this commerce continues, Honolulu will be subject to the danger of yellow fever epidemics. The legislature knew the danger that Honolulu ran from yellow fever, and with the intent to ward off such visitations gave special powers to the board of health, such as preventing breeding places of mosquitoes.

## STOCK EXCHANGE

Friday, January 12, 1911.

Ewa Plan Co.	32.75	33.03
Haw Agri Co.	270.00	300.00
Haw C & S Co.	42.50	42.67 1/2
Haw Sugar Co.	46.50	47.00
Honokaa Sug Co.	12.25	12.50
Haiku Sugar Co.	170.00	
Hutch S P Co.		22.50
Kahuku Plan Co.		20.00
Kekaha Sug Co.	227.50	
McBryde Sug Co.	6.87 1/2	7.03
Oahu Sugar Co.	34.75	34.87 1/2
Onomea Sug Co.	48.00	48.50
Olau Sugar Co.	6.00	6.12 1/2
Pacific Sugar Mill	120.00	135.00
Pioneer Mill Co.	230.00	232.00
Waiialua Agri Co.	128.00	129.00
Waimanalo Sug Co.		255.00
Waimea S M Co.		190.00
L. I. S. N. Co.	150.00	
Hawn Elec Co.	190.00	
H R T & L Co Com	125.00	
Mutual Tel Co.	18.00	19.87 1/2
Oahu R & L Co.		145.00
Hilo R R Com.	8.50	9.00
Hon B & M Co.	23.50	23.75
Haw Irrg Co.		8.00
Hawn Pine Co.	42.50	43.00
Tanjong Olok Rub.		41.00
Pahang Rub Co.		21.00
C B S & R Co 6s.	100.00	
Hon Gas Co 6s.	100.25	
Hilo R R 6s.	100.25	
Hilo R R Ext 6s.	92.25	
Hon R T & L 6s.	107.00	
Kauai Ry Co 6s.	100.00	
Kohala Ditch Co 6s.	100.00	
McBryde Sugar 6s.	100.00	
Mutual Tel 6s.	103.75	
Oahu S Co 6s.	103.00	
Olau Sugar Co 6s.	94.25	94.40
Pacific S M Co 6s.	104.25	
Pioneer Mill Co 6s.	101.50	
Waiialua Agri 5s.	102.00	

## MISSIONARY REFUGEES.

A sensational story of narrow escapes and many hardships is given out by Rev. J. C. Ogden, who was forced with his family to leave the Christian Mission in Thibet. The Ogdens are passengers on board the Nippon Maru, en route to Los Angeles. The causes of their sudden departure were both that supplies were cut off and the officials were no longer able to protect them. There was a trying trip on horseback for Mr. Ogden, while Mrs. and Miss Ogden were roughly transported in a sedan chair. On reaching Chungking they were kindly received by the American consul there, but on reaching Hongkong in a penniless condition they were refused a hearing by American Consul Anderson, and so were obliged to turn to the British Consul, who helped them out of their difficulty. At Shanghai a friend was found in Consul General Wilder, and so the Ogdens will soon be safe in Los Angeles. Rev. J. C. Peters, pastor, and several members of the local Christian church met them on the wharf here.

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## STOCK SALES

Honolulu Stock Exchange—Sales between Boards—\$3300 Hilo 1901 6s, \$100.25; 60 Ewa, \$33; 145 Haw. C. & S. Co., \$42.25; 25 do., \$42.25; 35 do., \$42.25; 100 do., \$42.50; 40 Hon. B. & M. Co., \$23.50; 70 Haw. C. & S. Co., \$42.50; 60 H. & M. Co., \$23.50; 10 Hilo Com., \$8.50.

Session Sales—25 Honokaa, \$12.25; 25 do., \$12.25; 10 Ewa, \$33; 10 do., \$33; 10 do., \$33; 10 do., \$33; 5 Waiialua, \$128.50; 10 Olau, \$6; 50 Haw. C. & S. Co., \$42.50; 20 Olau, \$6; 42 McBryde, \$7; 15 do., \$7.

Sugar Quotations—96 deg. Centrifugals, 4.405; 88 deg. Analysis Beets, 14s. 7 1/2d. Parity, 5.12.

## EARLY LITERARY ADVISER OF MARK TWAIN DEAD.

HANNIBAL, Mo., January 1.—James W. McDaniel, who was the first literary adviser of Samuel L. Clemens (Mark Twain), was